

# North Valley Pump Station

## General Site and Safety Considerations

Tuesday, December 01, 2015

### GENERAL SITE CONDITION/ACCESS

Vehicle Entrance and Exit to Site	Driveway off of NW Highland Ave.
Parking	Wide driveway
Sight lighting Fixture	None

### SAFETY CONSIDERATIONS

General Site Safety Issues	No issues noted
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### SITE SECURITY

Facility Fenced	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Privacy Fence	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Fence Material	Chain link	Height of Fence	8-foot
Method of Securing Access Gates	Chain and padlock	Fence Topping	3-strand barbed wire
Adequate security for keeping public off site?	Yes		

Notes:



# General Site Photos

Tuesday, December 01, 2015



Site entrance/access



Site fencing, looking north



Site, looking west

# Equipment Housing

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<b>Equipment Housing</b>	<input type="checkbox"/> Building	<input checked="" type="checkbox"/> Enclosure	<input checked="" type="checkbox"/> Other		
Condition	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
Criticality	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	
Serviceability	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	

Structural Materials	Steel can with cathodic protection - test station shows positive voltage on all four	
Age	Unknown	
Locking Doors	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Intrusion Alarm	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

## Dimensions:

8 foot diameter, approximately 8 feet deep

## HVAC:

Heat	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Cooling	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Humidity Control	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Fan	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

## Notes:

Below grade can





# Equipment Housing Photos

Tuesday, December 01, 2015



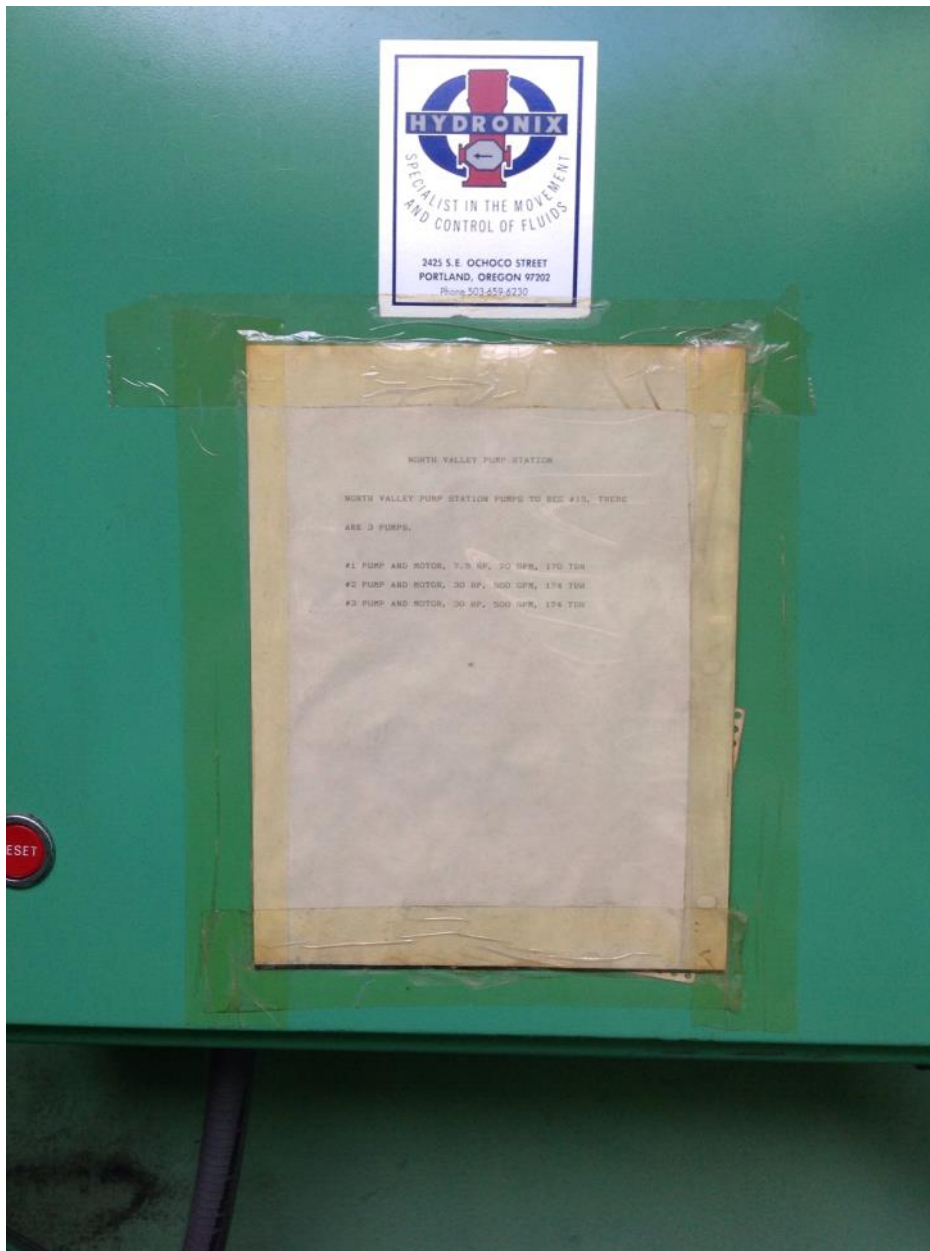
Below-grade access hatch



Looking down into station



Cathodic protection test station



Pump control panel - recorded pressure settings

# Flow Meter and Vault(s)

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<b>Flow Meter</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			
Condition	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input checked="" type="checkbox"/> 5
Criticality	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	
Serviceability	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	
Asset Nos.					
Location.	Inside pump station, common discharge pipe				
Type/Manufacturer	Muesco, some version of insertion meter				
Age	Unknown				

<b>Vault</b>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Description			
Structural Materials			
Dimensions			
Age			
Access Hatch Fall Protection	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Access Hatch Lock	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Intrusion Alarm	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

## Notes:

Additional above-grade stick frame housing for backflow preventer





# Flow Meter and Vault(s) Photos

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Flow meter - not functional

# NORTH VALLEY #1

Tuesday, December 01, 2015

Suction Zone	1370	Discharge Zone	1403
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Pumping System No. 1

Condition ☐ 1 ☐ 2 ☐ 3 ☒ 4 ☐ 5

Criticality ☐ 1 ☐ 2 ☒ 3 ☐ 4

Serviceability ☐ 1 ☐ 2 ☐ 3 ☐ 4

Pump Type ☐ Vert. Turb. ☒ End Suction ☐ Split case ☐ In-line centrifugal

Mounting ☒ Horizontal ☐ Vertical

Pump from ☒ Piping ☐ Can ☐ Basin/Clearwell

Pump to ☐ Closed zone ☒ Pressure tank ☒ Reservoir

Asset no.	P-7-5-1
Manufacturer	PACO
Model	1070-5
Serial #	1971021047
Age	Unknown

Rated Design Pt 70 gpm @ 170 feet TDH

Ability to Isolate Pump ☒ Yes ☐ No

How to Remove Pump Pick from above station

## MOTOR

☐ ODP ☒ TEFC ☐ TENV ☐ TEBC ☐ Diesel Engine ☐ Other

Horsepower 7.5 Voltage Phase rpm 3450

Manufacturer	Baldor
Model	JMM3709T
Serial #	F0802053375
Age	Unknown

Inverter duty rated? ☐ Yes ☐ No ☒ Unknown

Motor Driver ☐ VFD ☐ Soft Starter ☒ FVNR Starter ☐ None

Notes:



# Valves and Gauges

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<b>Check/Control Valve</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.
Asset Nos.	FCV-7-5
Type/Manufacturer	MUESCO - gutted on common suction pipe
Age	Unknown

<b>Isolation Valve(s)</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.
Asset Nos.	FV-7-5-1-1, FV-7-5-1-2
Type/Manufacturer	GV/Dezurik - 2" & 2" 1/4 turn plug valves
Age	Unknown

<b>Pressure Gauge(s)</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Asset Nos./ Type/Manufacturer	<table><tr><td>PIT-7-5-1</td><td>Pump Station Suction Pressure Transmitter</td><td>CE Comp. Electronics Inc.</td></tr><tr><td>PIT-7-5-2</td><td>Pump Station Disch Pressure Transmitter</td><td>Dwyer</td></tr></table>	PIT-7-5-1	Pump Station Suction Pressure Transmitter	CE Comp. Electronics Inc.	PIT-7-5-2	Pump Station Disch Pressure Transmitter	Dwyer
PIT-7-5-1	Pump Station Suction Pressure Transmitter	CE Comp. Electronics Inc.					
PIT-7-5-2	Pump Station Disch Pressure Transmitter	Dwyer					
Age	Unknown						

## Notes:

Appear to be flow control valves on the suction piping. These have reportedly been gutted, but no one knows why they were installed in the first place.



# Piping

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## Common Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Steel galv and painted
Age	Unknown

## Pump Specific Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	2"
Pipe material	Steel
Age	Unknown

## Pump Specific Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	2"
Pipe material	Steel
Age	Unknown

## Common Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Steel galv and painted
Age	Unknown

Notes:





# Pump/Valve/Piping Photos

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Pumping System No. 1



Pumping System No. 1 pump



Pumping System No. 1 motor nameplate





Common system pressure tank, floats on system with same pressure

# NORTH VALLEY #2

Tuesday, December 01, 2015

Suction Zone	1370	Discharge Zone	1403
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Pumping System No. 2

Condition ☐ 1 ☐ 2 ☒ 3 ☐ 4 ☐ 5

Criticality ☐ 1 ☐ 2 ☒ 3 ☐ 4

Serviceability ☐ 1 ☐ 2 ☐ 3 ☐ 4

Pump Type ☐ Vert. Turb. ☒ End Suction ☐ Split case ☐ In-line centrifugal

Mounting ☒ Horizontal ☐ Vertical

Pump from ☒ Piping ☐ Can ☐ Basin/Clearwell

Pump to ☐ Closed zone ☒ Pressure tank ☒ Reservoir

Asset no.	P-7-5-2
Manufacturer	PACO
Model	3070-7
Serial #	Unknown
Age	Unknown

Rated Design Pt 500 gpm @ 174 feet TDH

Ability to Isolate Pump ☒ Yes ☐ No

How to Remove Pump Pick from above station

## MOTOR

☐ ODP ☐ TEFC ☒ TENV ☐ TEBC ☐ Diesel Engine ☐ Other

Horsepower 30 Voltage Phase rpm

Manufacturer	General Electric
Model	Unknown
Serial #	Unknown
Age	Unknown

Inverter duty rated? ☐ Yes ☐ No ☒ Unknown

Motor Driver ☐ VFD ☐ Soft Starter ☒ FVNR Starter ☐ None

Notes:





# Valves and Gauges

Tuesday, December 01, 2015

<b>Check/Control Valve</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.		
Type/Manufacturer	Wafer check	
Age	Unknown	

<b>Isolation Valve(s)</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.	FV-7-5-2-1, FV-7-5-2-2	
Type/Manufacturer	GV/Dezurik - 4" & 4" plug valves	
Age	Unknown	

<b>Pressure Gauge(s)</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Asset Nos.	See pumping system no. 1 for information	
Type/Manufacturer		
Age		

Notes:



# Piping

Tuesday, December 01, 2015

## Common Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Steel galv and painted
Age	Unknown

## Pump Specific Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	4"
Pipe material	Steel
Age	Unknown

## Pump Specific Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	4"
Pipe material	Steel
Age	Unknown

## Common Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Steel galv and painted
Age	Unknown

Notes:



# Pump/Valve/Piping Photos

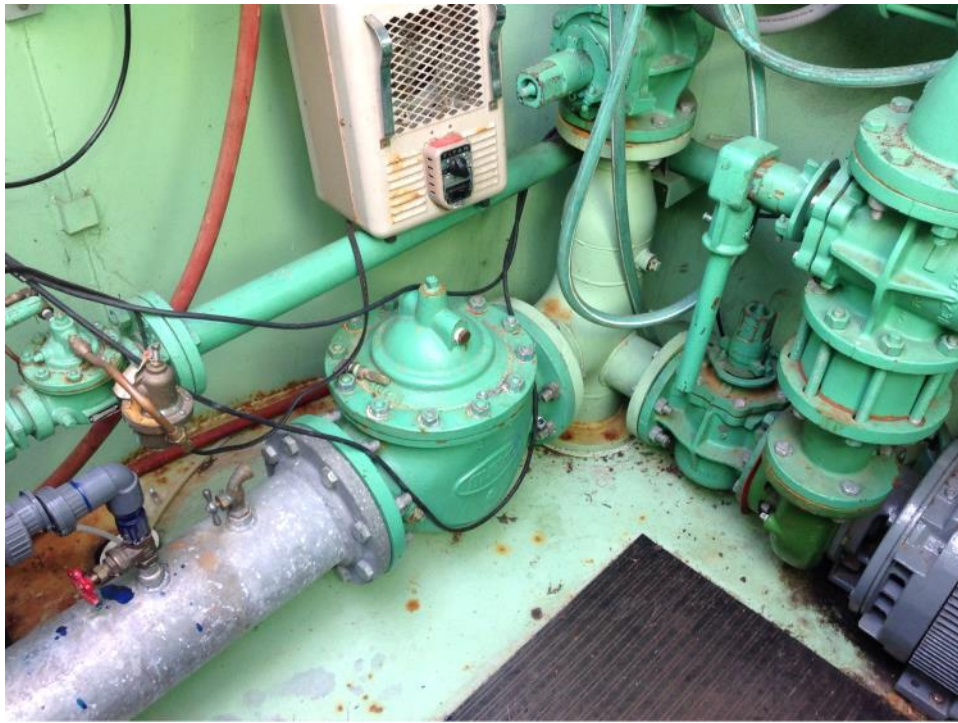
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Pumping System No. 2



Pumping System No. 2 discharge piping



Pumping System No. 2 suction piping



# NORTH VALLEY #3

Tuesday, December 01, 2015

Suction Zone	1370	Discharge Zone	1403
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Pumping System No. 3

Condition ☐ 1 ☐ 2 ☒ 3 ☐ 4 ☐ 5

Criticality ☐ 1 ☐ 2 ☒ 3 ☐ 4

Serviceability ☐ 1 ☐ 2 ☐ 3 ☐ 4

Pump Type ☐ Vert. Turb. ☒ End Suction ☐ Split case ☐ In-line centrifugal

Mounting ☐ Horizontal ☒ Vertical

Pump from ☒ Piping ☐ Can ☐ Basin/Clearwell

Pump to ☐ Closed zone ☒ Pressure tank ☒ Reservoir

Asset no.	P-7-5-3
Manufacturer	PACO
Model	3070-7
Serial #	G20388
Age	Unknown

Rated Design Pt 500 gpm @ 174 feet TDH

Ability to Isolate Pump ☒ Yes ☐ No

How to Remove Pump Pick from above station

## MOTOR

☐ ODP ☒ TEFC ☐ TENV ☐ TEBC ☐ Diesel Engine ☐ Other

Horsepower 30 Voltage Phase 3550 rpm

Manufacturer	General Electric
Model	Unknown
Serial #	Unknown
Age	Unknown

Inverter duty rated? ☐ Yes ☐ No ☒ Unknown

Motor Driver ☐ VFD ☐ Soft Starter ☒ FVNR Starter ☐ None

Notes:



# Valves and Gauges

Tuesday, December 01, 2015

<b>Check/Control Valve</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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Reported/Exterior Condition	No issues noted.
Asset Nos.	
Type/Manufacturer	Wafer
Age	Unknown

<b>Isolation Valve(s)</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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Reported/Exterior Condition	No issues noted.
Asset Nos.	FV-7-5-3-1, FV-7-5-3-2
Type/Manufacturer	GV/Dezurik - 4" & 4" plug valves
Age	Unknown

<b>Pressure Gauge(s)</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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Asset Nos.	See pumping system no. 1 for information
Type/Manufacturer	
Age	

Notes:



# Piping

Tuesday, December 01, 2015

## Common Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Steel galv and painted
Age	Unknown

## Pump Specific Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	4"
Pipe material	Steel
Age	Unknown

## Pump Specific Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	4"
Pipe material	Steel
Age	Unknown

## Common Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Steel galv and painted
Age	Unknown

Notes:



# Pump/Valve/Piping Photos

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Pumping System No. 3







Pumping System No. 3 motor nameplate

# Backup Power

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## BACKUP POWER

Source	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Pig tail for portable	<input type="checkbox"/> On-site, permanent
Transfer Switch	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Type	<input type="checkbox"/> Manual	<input type="checkbox"/> Auto	

### Notes:

Old pig tail to be replaced for new portable generator

## STANDBY GENERATOR

Condition	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
Criticality	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	
Serviceability	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	
Asset No.					
Manufacturer					
Model					
Serial #					
Age(s)					
Location					
Electrical capacity	KW		Voltage		Phase(s)
Fuel type	<input type="checkbox"/> Diesel	<input type="checkbox"/> Nat. Gas	<input type="checkbox"/> Propane	<input type="checkbox"/> Gasoline	<input type="checkbox"/> Other
Full load fuel demand		gal/hr			
Fuel stored on-site		gal			

### Notes:

